Video Cassette Recorder VR788 / 50

Instructions for use Mode d'emploi Instrucciones de manejo





Let's make things better.



PHILIPS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.



The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR

MOISTURE.

CAUTION:

To prevent electrical shock, match wide blade

of plug to wide slot, and fully insert.

ATTENTION:

Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser

jusqu'au fond.

FCC Warning: Any unauthorized changes or modifications to this equipment void the user' authority to

operate it.

For Customer Use

Enter below the Serial No. which is located on the rear of the cabinet.

Retain this information for future reference.

Model No.

Serial No.



Introduction

Congratulations on purchasing your new VCR.

You can't wait to get it working, but before you do, spare a few moments to read this brief introduction to the world of video recording. It may repay you handsomely in terms of improved results, and avoiding of costly mistakes.

Positioning

Do not place the VCR directly on top of, or underneath, your TV set. Ensure that there is at least 20 cm between the VCR and the TV set, and that air can circulate freely through the ventilation openings of the VCR.

This VCR, equipped with a HQ (High Quality) system, is compatible with any other VHS VCR.

This VCR is also equipped with SQPB (S-VHS Quasi PlayBack), making it possible to play back S-VHS recordings with regular VHS resolution.

Philips Consumer Electronics Company recommends that you use only video cassette tapes that have been tested and inspected for use in two, four, six and eight hour VCRs, and which are labeled with the WHS mark.

The use of the tapes that have not been inspected for use in two, four, six, and eight hour VCRs may result in poor picture quality and excessive deposits on the video heads, which may not be covered by the warranty if damage occurs.

Note to the Cable TV System Installer: This reminder is provided to call the Cable TV system installer's attention to Article 820-40 of the National Electrical Code, which provides guidelines for proper grounding – in particular, specifying that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

IMPORTANT

Audio-Visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright.

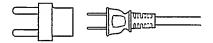
Please refer to relevant laws in your country.

VCR Maintenance

- Remove any light adhesive stick-on labels from the video cassette tape before putting the tape in the VCR since these labels may be jammed in the VCR.
- Periodical maintenance is required to maintain your VCR's performance.
 Your VCR has an automatic head cleaner, but the video heads eventually will require cleaning or replacement. Cleaning or replacement of the video heads should be performed only by an authorized service center.

Conversion Plug

 Use the conversion plug (provided) depending on the type of your AC WALL outlet for connection to countries outside of USA and Canada.



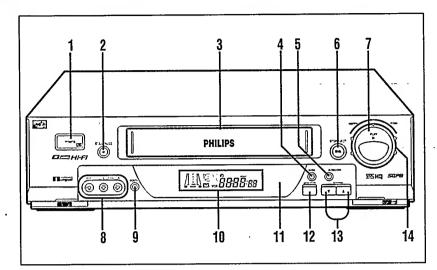
DBS™ is an official trademark of DIRECTV, Inc., a unit of GM Hughes Electronics.

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DESCRIPTION OF CONTROLS

Front Panel



1 POWER button

- · Turns the VCR on or off.
- Sets the VCR for an unattended recording (timer recording) after timer settings are completed. (+P.19)

2 STILL/PAUSE 00 button

Stops the tape during recording (pause) or playback (still picture). (*) P.14, P.17) Press again to resume normal playback or recording.

3 Cassette Compartment

Where a video cassette is inserted.

4 ►/OK button

Changes the selection when using the menus. (+)P.11)

5 REC (record)/OTR ● button

- Starts recording when pressed once.
 (→P.14)
- Starts a recording for 30 minutes to 9 hours long when pressed more than once. The shut-off time increases in 30 minute intervals. (+)P.15)

6 STOP/EJECT **■** / **▲** button

Stops the tape when the tape is running. (+) P.14)

Press again to ejects the cassette when the tape is not running. (+P.14)

7 PLAY ➤ button

Starts normal playback. (+P.14)

8 AUDIO/VIDEO input jacks

For connecting another VCR or a portable video camera. (+)P.20)

9 VCR/TV button

Selects which built-in tuner (either TV's or VCR's) to use.

Pressing this button turns on or off the VCR indicator on the display.

When the VCR indicator is on:

The VCR's tuner becomes active for the TV. You cannot select the channels on the TV.

When the VCR indicator is off:

The TV's tuner becomes active for itself. So you can watch another TV broadcast while recording a TV broadcast selected with the VCR's tuner. (+) P.14)

10 Display window

See the next page.

11 IR (infrared) remote sensor

Receives the signal from the (IR) remote control.

12 MENU/EXIT button

Display the main menu. Press again to exit from the menu operations. (+P.11)

13 CHANNEL ▼ /▲ buttons

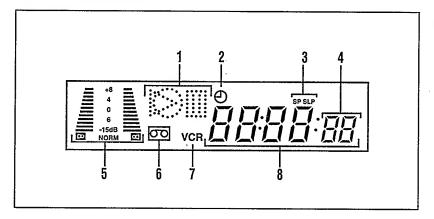
- Changes the channels on the VCR.
 Release at a desired channel.
- Moves the cursor up and down when using the menus. (→P.11)
- Adjusts the tracking during playback, still picture, and slow motion picture (>P.18)

14 Shuttle ring

- Rewinds or fast forwards the tape when the tape is not running. (+P.14)
- Starts reverse or forward rapid visual search during playback or still picture mode. (+P.14, P.17)

DESCRIPTION OF CONTROLS (CONTINUED)

Display Window



1 Play mode indicators

- O: Lights up during recording.
- >: Lights up during playback.
- III: Lights up during a pause.

2 😃 (Timer) indicator

Lights up when the VCR is set for an unattended recording (timer recording). (+)P.19)

3 Speed indicator

Indicates the tape speed. SP - Standard Play SLP - Super Long Play

4 Channel indicator

A channel number selected with the TV tuner built-in the VCR appears. When the external line input is selected "L" appears.

5 Sound level indicator

Indicates the audio signal level, NORM (normal):

Lights up when the monaural sound of the normal audio track is played back.

画 画:

Lights up when a broadcast is received or a stereo programme is played back.

6 [55] (Cassette-in) indicator

Lights up when there is a cassette in the VCR.

7 VCR indicator

Lights up when the TV tuner built in the VCR is active for the TV.

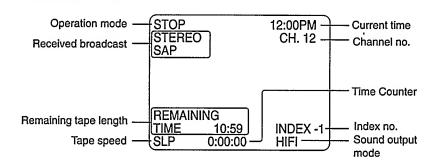
8 Digital clock/counter

- · Normally the present time appears.
- When a tape is inserted, the time counter appears (and is reset to 0:00:00).

If you always rewind your tapes completely, you can use this counter reading as an index to find where a programme starts.

On-Screen Display

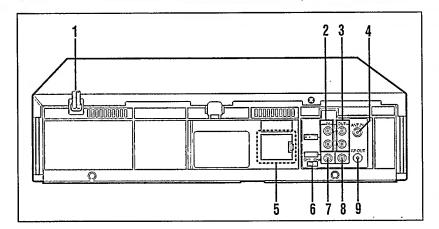
The following information (VCR operating status) appears on the TV screen. (+P.16)



Note on the displayed information

 When you playback a thin tape like a T-160 cassette tape or compact video cassette tape (VHS-C), the remaining tape length will flash.

Rear Panel



- 1 AC (alternating current) power cord
 - Connect the AC power cord to an AC outlet.
- 2 AUDIO IN (input) jack

For connecting to the audio output jack on another VCR or a portable video camera. (*) P.20)

- 3 AUDIO OUT (output) jack
 - For connecting to the audio input jack on a TV or another VCR. (+)P.10)
- 4 ANT. (antenna) IN (input) terminal (from Antenna)

Connect your antenna, Cable box, or DBS tuner to this terminal. (+)P.10)

- 5 Backup battery compartment
 Place the backup battery.
- 6 CH3/CH4 selector

Set the video output channel to the one not used for regular TV broadcasting in your area. (+)P.10)

7 VIDEO IN (input) jack

For connecting to the video output jack on another VCR or a portable video camera. (+)P.20)

8 VIDEO OUT (output) jack

For connecting to the video input jack on a TV or another VCR. (+P.10)

9 RF OUT (output) terminal (to TV)

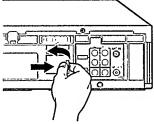
Use the supplied RF coaxial cable to connect this terminal to the UHF/VHF input terminal on the TV. (→P.10)

To insert the backup battery:

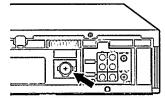
IMPORTANT

Before inserting the backup battery, plug the AC power cord into an AC outlet (+P.10). Without connecting the AC power cord, the backup battery will be used up immediately.

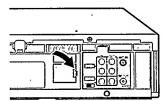
Open the battery compartment lid Refor the backup battery.



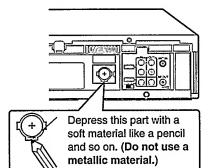
2 Install the battery —CR2025 — matching polarity indicated inside the battery compartment.



3 Replace the lid.



To remove the battery:



More:

Without this backup battery, this VCR can keep the memorized timer recording contents and clock time only for a few minutes if a power interruption occurs.

- WARNING -

On lithium battery

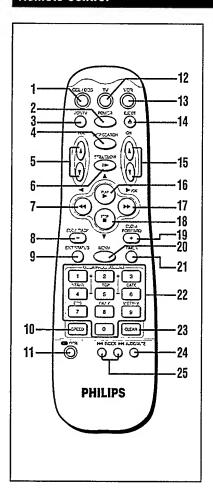
The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.

Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025; use of another battery may present a risk of fire or explosion.

- Disposed of used battery promptly.
- · Keep away from children.
- Do not disassemble and do not dispose of in fire.

DESCRIPTION OF CONTROLS (CONTINUED)

Remote Control



Using this remote control to operate other components

 You can use this remote control to operate your Cable box or DBS tuner if it is one of the PHILIPS models.

1 CBL/DBS button

Does not Function for this VCR.

2 POWER button

Before using this button, press VCR, TV, or CBL/DBS to select your target component.

- After pressing VCR:
 - Turns the VCR on or off.
 - Sets the VCR for an unattended recording (timer recording) after timer settings are completed.
 (+)P.19)

For some Philips TV only:

After pressing TV, turns the TV on or off.

3 VCR/TV button

Selects which built-in tuner (either TV's or VCR's) to use.

Pressing this button turns on or off the VCR indicator on the display.

When the VCR indicator is on:
The VCR's tuner becomes active for the

TV. You cannot select the channels on the TV.

<u>When the VCR indicator is off:</u>
The TV's tuner becomes active for

itself. So you can watch another TV broadcast while recording a TV broadcast selected with the VCR's tuner. (+P.14)

4 SKIP SEARCH button

Skips playback for 30 seconds by time counter reading.

When pressed more than once up to 4 times, the search time increase in 30-second intervals up to 2 minutes. (+)P.17)

5 VOL (volume) ▲ / ▼ buttons

Changes the TV volume. Release at desired volume.

6 STILL/SLOW I► button

Stops the tape during recording (pause) or playback (still picture) temporarily. (*) P.14, P.17)

Press again to resume normal playback or recording.

7 **◄** (Rewind) / **◄** button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
 - Rewinds the tape. Also, during playback, starts rapid reverse visual search. (+P.14)
 - Goes back to the previous menu screen when using the menus.
 (+P.11)

8 SLOW/BACK - button

During a slow motion picture, adjust the playback speed in the reverse direction. (+)P.18)

9 EXIT/STATUS button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
 - Displays the time counter, present time, channel number, and remaining tape length. (>P.16)
 - Exits from menu operations when using the menus. (→P.11)

For other manufacturers TVs: Functions as the ENTER button if your TV requires pressing ENTER after selecting a channel number

 After pressing CBL/DBS: Functions as the ENTER button if your Cable Box or DBS tuner requires pressing ENTER after selecting a channel number.

10 SPEED button

Selects the tape speed for recording (SP, SLP). During playback, the tape speed is automatically selected (SP, SLP). (+):P.14, P.18)

11 REC (record)/OTR button

- Start recording when pressed once.
 (→P.14)
- Starts a recording for 30 minutes to 9 hours long. When pressed more than once, the shut-off time increases in 30-minute intervals. (+):P.15)

12 TV button

Makes the remote control ready for operating the TV.

13 VCR button

Makes the remote control ready for operating the VCR.

14 EJECT ▲ button

Ejects the cassette. (+)P.14)

15 CH (channel) ▲ / ▼ button

Before using this button, press VCR, TV, or CBL/DBS.

 After pressing VCR, changes the channels on the VCR. Release at a desired channel.

For some Philips TV only:

 After pressing TV, changes the channels on the TV. Release at a desired channel.

16 PLAY ► / ▲ button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
 - Starts normal playback. (+)-P.14)
 - Moves up the cursor when using the menus. (→P.11)

17 ►► (Fast forward) / ►/OK button

Before using this button, press VCR or TV to select your target component.

- After pressing VCR:
 - Fast forward the tape. Also during playback, starts rapid forward visual search. (+P.14)
 - Selects the items on the menus or goes to the next menu screen when using the menus. (+P.11)

18 STOP **■** / **▼** button

- Stops the tape. (+P.14)
- Moves down the cursor when using the menus. (+) P.11)

19 SLOW/FORWARD + button

During a slow motion picture, adjust the playback speed in the forward direction. (+)P.18)

20 MENU button

Before using this button, press VCR or TV to select your target component.

 After pressing VCR, calls up the main menu. (+)P.11)

21 TIMER button

Display the Timer Recording menu. (→P.18)

22 Number buttons

(0, 1, 2, 3, 4, 5, 6, 7, 8 and 9)

Before using these buttons, press VCR, TV, or CBL/DBS to select your target component.

- Press to select a channel on the VCR, TV, Cable Box, or DBS tuner.
 To select channels 1 to 9, press 0 then the channel you want. For example, for channel 4, press 0 then
- Also used to programme the Timer Recordings. (+) P.18)

23 CLEAR button

Erases unwanted timer programmes. (→P.19)

24 AUDIO/MUTE button

For some Philips TV only: Turns off the TV sound.

25 INDEX I → I buttons

Locates an index marked at the beginning of every recording. (→P.15)

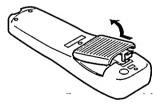
Note:

The following buttons will light when you press them.

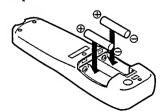
- PLAY ►
- STOP■
- ►► (Fast forward)
- ◄◄(Rewind)

To insert the batteries:

1 Remove the battery compartment lid from the bottom of the remote control.



Install two batteries —R6(SUM-3)/AA — matching polarity indicated inside the battery compartment.



Replace the lid.

Note:

This remote control and batteries are supplied accessories.
Check to make sure they are included.
Also, check "Specifications" to see what other accessories are included.

- CAUTION -

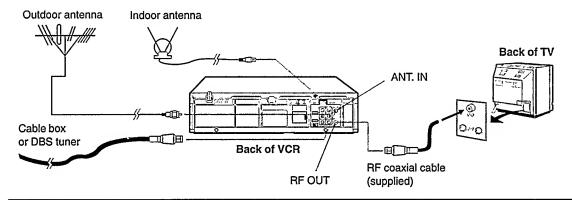
On Battery'Replacement

Do not mix old and new batteries. (Also never mix alkaline batteries with manganese batteries.)

VCR to TV Connection

Connection Diagram

- 1 Disconnect the antenna, Cable box, or DBS tuner from the TV and the AC power cord of the TV from the AC outlet.
- 2 Connect the antenna, Cable box, or DBS tuner to the VCR.
- 3 Connect the VCR to the TV using the RF coaxial cable.
- 4 Plug the AC power cords of the VCR and TV into the AC outlets.
- 5 Insert the backup battery. See page 7.



Set Your Video Channel

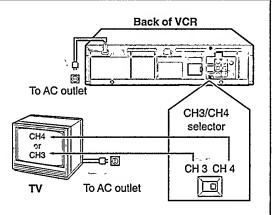
Set the CH3/CH4 selector to either CH3 or CH4 whichever channel not used in your area.

If both are used, select the channel giving a better picture when playing a tape.

To watch a picture from this VCR on the TV, select the same channel (either channel 3 or 4) on the TV, you have set the CH3/CH4 selector to on this VCR.

· CAUTION -

Do not plug the AC power cords until all connections are completed.



VCR to AV TV Connection

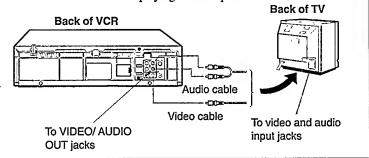
With this connection, you can get better pictures and HiFi stereo sounds when playing back a tape.

To watch a picture from this VCR on the TV, select the video input on the TV, to which this VCR is connected.

NOTE:

If your TV is not of stereo type, you can connect the VCR to your audio system to reproduce HiFi stereo sound.

Refer also to the manual supplied with your audio system.



Operations hereafter are described using the buttons on the remote control unless mentioned otherwise. The buttons on the front panel having the same (or nearly same) name or same (or nearly same) mark function exactly the same as those on the remote control.

Menu Operations

Before operating the VCR, be familiar with the menu operations first because most of the features built into the VCR can be available only on the menus.

- 1 Press VCR on the remote control.
 - When using the buttons on front panel, skip this step.
- 2 Press MENU
 (or MENU/
 EXIT on the
 front panel) to
 display the
 main menu screen.



- 3 Press ▲ or ▼ (or CHANNEL ▲/ ▼ on the front panel) to select a desired feature on the menu, then press OK/►.
- 4 When you select a feature, go to the section in this manual and follow the instructions described there.

To go back to the previous menu screen, press ◀.

To exit from the menu operations, press EXIT/STATUS (or MENU/EXIT on the front panel again).

Note:

Menu operating buttons function only when a menu is on the TV screen. When no menus is on the TV screen, they function differently.

Turning On VCR

For the first time you turn on this VCR, some basic settings must be done first before going on to further operations.

Make sure....

- Your VCR, TV, and antenna are connected correctly.
- The remote control operation mode is set correctly for operating your target component.
 - Press VCR to operate the VCR.
 - Press TV to operate the TV.

1 On TV

- 1 Turn on the TV.
- 2 Select the video channel (either channel 3 or channel 4, which you have selected with the CH3/CH4 selector on the VCR) or the video input (to which this VCR is connected).

2

Select the Language

- 1 Press VCR.
 - When using the buttons on front panel, skip this step.



- 2 Press POWER. PUSH FOR TO CONTINUE THE VCR turns on, then the menu for selecting the language appears.
- 3 Press ▲ or ▼ to select either "ENGLISH," "ESPAÑOL" (Spanish), or "FRANÇAIS" (French) whichever you want to use on the TV screen.
- 4 Press OK/►.

The following message appears on the TV.



Start Channel Set

Press OK/► again to programme the receivable channels automatically. The following message appears on the TV.



The local channel receivable in your area are automatically programmed in the VCR tuner.

 If "NO TV SIGNALS" appears on the TV, an antenna, Cable box, or DBS tuner is not connected correctly. Check the connection and press OK/► again.

When the auto programming is completed

The following message appears on the TV, and the lowest channel will be tuned in.



To cancel the auto programming, press STOP ■.

"TUNER NOT SET" appears for a while.

To turn off the VCR

Press POWER again.

The VCR turns off.

Next time you turn o

Next time you turn on the VCR, the menu for selecting the language will not appear, and messages and menus will be displayed in the language you have selected.

To change the channels on the VCR

Press CH ▲/▼.

Selected channel numbers appear on the display. When the line input is selected, "L" appears on the display and "A/V IN" appears on the TV screen.

SETTING UP (CONTINUED)

IMPORTANT

The setup and adjustment procedures explained hereafter are written under the following conditions:

- · You have turned on the TV and selected the video channel (or video input).
- You have turned on the VCR.

Clock Setting

There are two ways of setting the clock - Auto Clock Set and Manual Clock Set.

Auto Clock Set is only possible when using this VCR in North America.

Make sure....

• To make each entry within 10 seconds; otherwise, the VCR cancels the clock setting and you will have to start over again.

Manual Clock Set

Select Initial Setup Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "INITIAL SET UP" then press OK/►.

SELECT A▼ CHOOSE NOK CLOCK ENGLISH TO END PUSH EXIT

The Initial Set Up menu appears.

Select Clock Set Mode

Press ▲ or ▼ to select "CLOCK" then press OK/►

****** AM 86/10/10

🕲 Set Time

1 Press ▲ or ▼ to set the time. "AUTO CLOCK" is automatically set to "OFF."



- Each time you press the button, the set time changes by 1-minute intervals. If you hold the button, the set time changes by 30-minute intervals.
- 2 Press OK/▶.

Set Month and Day

- 1 Press ▲ or ▼ to set the month and day.
 - · Each time you press the button, the set date changes by 1-day intervals. If you hold the button, the set time changes by 15-day intervals.
- 2 Press OK/►.

5 Set Year

- 1 Press ▲ or ▼ to set the year.
 - · Each time you press the button, the set date changes by 1-year intervals. If you hold the button, the set time changes rapidly.
- 2 Press OK/▶.



Set Day Saving Time

- 1 Press ▲ or ▼ to select the Day Saving Time (D.S.T.) setting you
 - ON: Select this to activate the day saving time setting.
 - OFF: Select this to deactivate the day saving time setting.
- 2 Press OK/►.



Start Clock

Press EXIT/STATUS.

The internal clock starts and the normal TV screen resumes.

Auto Clock Set

Select Initial Setup Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "INITIAL SET UP" then

press OK/►.

The Initial Set Up menu appears.

Select Clock Set Mode

Press ▲ or ▼ to select "CLOCK" then press OK/►.

01/01/58 TIVE UTO CLOCK ON PBS CH. AUTO OST AUTO

SELECT A▼ CHOOSE >/OK

ENGUSH

CLOCK

TO END PUSH EXC

Set Auto Clock

- 1 If "AUTO CLOCK" is "OFF." press ▲ or ▼ to set it to "ON."
- 2 Press OK/►.



Set PBS Channel

- 1 Press ▲ or ▼ to select the PBS (Public Broadcasting Service) channel ("AUTO" or preset channel 8 to 13) from which the VCR receives the current time signal.
 - Normally select "AUTO." The VCR will find an appropriate channel.
 - · When "AUTO" does not work correctly, select a PBS channel manually from preset channel number 8 - 13.
- 2 Press OK/►.



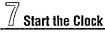
O Set Day Saving Time

- 1 Press ▲ or ▼ to select the Day Saving Time (D.S.T.) setting you want.
 - AUTO: Normally select this.
 - Select this only when ON: "AUTO" does not work correctly.
 - OFF: Select this to deactivate the day saving time setting.
- 2 Press OK/▶.



Set Time Zone

- 1 Press ▲ or ▼ to select your residential area.
 - · Normally select "AUTO." The VCR will find a proper channel.
 - · When "AUTO" does not work correctly, select your residential area manually.
- 2 Press OK/▶.



- 1 Press EXIT/STATUS.
- 2 Press POWER.

The VCR starts setting the internal clock ("Auto" appears on the

Leave the VCR turned off until the current time appears on the display.

If Auto Clock Set does not work correctly

"--:-" appears.

If this happens, do the clock setting again using one of the following.

- Repeat the Auto Clock Set procedure and select a PBS channel manually in step 4.
- · Set the clock manually.

To reset the clock

By repeating the Manual Clock Set or Auto Clock Set procedures, you can reset the clock.

 When you set "AUTO CLOCK" to "ON," the current time setting will be lost.

Notes on the Clock Set

- When "PBS CH." is set to "AUTO" or "ON," the clock time will be corrected every hour (except midnight hours) using the time signal sent from the PBS channel.
- When the Day Saving Time is set to "AUTO" or "ON," the clock will automatically advance by 1 hour from 2 AM to 3 AM on the first Sunday of April, and delay by 1 hour from 2 AM to 1 AM on the last Sunday of October.

Selecting Language

You can also change the language used on the menus any time you want.

SELECT A▼ CHOOSE >/OK

ENGLISH

CLOCK

TO END PUSH EXIT

Select Initial Setup Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "INITIAL SET UP" then press OK/►.

The Initial Set Up menu appears.

2 Select Language

- 1 Press ▲ or ▼ to select "LANGUAGE."
- 2 Press OK/► to select the language on the TV screen.
 Each time you press the button, the language changes as follows:
- → English → Spanish → French ←

Finish Setting

Press EXIT/STATUS.

Channel Setting

When you want to do channel setting by yourself, follow this procedure. You can also add or delete channels.

Select Tuner Set Up Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "TUNER SET UP" then press OK/▶.

SELECT AV CHOOSE NOK

CABLE/ANTENNA CABLE
AUTO CHPROGRAMMING
ADDIBLETE CH.

TO END PUSH EXIT

The Tuner Set Up menu appears.

2 Select TV or Cable

- 1 Press ▲ or ▼ to select "CABLE/ ANTENNA."
- 2 Press OK/►. Each time you press the button, the setting changes.

CABLE:

Select this mode when you use a Cable box or DBS tuner to watch TV broadcast.

ANT (Antenna):

Select this mode when you do not use a Cable box or DBS tuner to watch TV broadcast.

Start Auto Channel Set

Press ▲ or ▼ to select "AUTO CH.

PROGRAMMING" then press OK/▶.

The following message appears on the

TV.

AUTO CH.SET PROCEEDING
PLEASE WAIT

START FINISH

The local channels receivable in your area are automatically programmed in the VCR tuner.

When the auto programming is completed

The lowest channel will be tuned in.

To add or delete a channel

You can add or delete a channel manually if you want.

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "TUNER SET UP" then ►.
- 4 Press ▲ or ▼ to select "ADD/ DELETE CH" then press OK/▶.
- 5 Press ▲ or ▼ to select a channel to add or delete.

· You can also use

SELECT AV

124 DELETED
125 DELETED
126 DELETED
127 ADDED
128 ADDED
129 ADDED
130 ADDELETE PUSH P/OX
130 END PUSH P/OX
130 END PUSH P/OX
130 END P/OX
130 END
130

the CH ▲/▼ · !TOENDFUSHEAT **
buttons and number buttons to select a channel.

6 Press OK/►.

Each time you press the button, "DELETED" and "ADDED" are alternately selected for the selected channel.

DELETED:

Select this to delete the channel.

ADDED:

Select this to add the channel.

7 Press EXIT/STATUS to exit from the menu operations.

BASIC OPERATIONS

Playback

Make sure....

- Your VCR, TV, and antenna are connected correctly.
- The remote control operation mode is set correctly for operating your target component.
 - Press VCR to operate the VCR.
 - Press TV to operate the TV.



- 1 Turn on the TV.
- 2 Select the video channel (or video input).



Insert a cassette.

The VCR turns on.

- If the record tab on a cassette is removed, playback will start automatically.
- If a cassette is already in the VCR, turn on the VCR.

Start Playback

Press PLAY ▶.

- When you want to play back the same tape repeatedly, press and hold PLAY ► for more than 5 seconds. (See "Repeat playback" on page 15.)
- When you want to play back a HiFi stereo tape, you can change the sound you listen to. See "Selecting Monitor Sound" (+p.17)

To rapidly locate a particular scene

Press ►► or ◄◄ during playback. (No sound comes out.)

To resume playback, press PLAY ► again.

 If ➤➤ or <<i is held down for more than 2 seconds, simply releasing it will cancel the search.

To stop playback Press STOP ■.

To rewind the tape

To fast forward the tape

Press > when the tape is not running (or turn the shuttle ring on the front panel clockwise).

To eject the tape Press EJECT ▲.

Recording

When using this VCR, an index mark is always marked at the beginning of every recording. This index marks make it easier for you to search for the beginning of the recordings (see "Index Search" (+) P.15).)

Make sure....

- The record tab on the cassette is not removed.
- Your VCR, TV, and antenna are connected correctly.
- The remote control operation mode is set correctly for operating your target component.
 - Press VCR to operate the VCR.
 - Press TV to operate the TV.



- 1 Turn on the TV.
- 2 Select the video channel (or video input),



Insert a cassette with the record tab in place.

The VCR turns on.

 If a cassette is already in the VCR, turn on the VCR.

To rewind the tape, press ◄ (or turn the shuttle ring on the front panel counterclockwise).

Select Tape Speed

Press SPEED until the desired tape speed (SP, SLP) appears on the display.

Select a Channel

Press CH ▲ / ▼ or Number buttons to select the channel to record.

 If you use a Cable box or DBS tuner, select the Cable box or DBS tuner output channel.

5 Start Recording

Press REC/OTR.

 When you want to record an MTS programme, you need to set the type of programme you want to record. (See "Recording an MTS Programme" (+)P.17).

To pause recording

Press STILL/SLOW I► briefly (or STILL/PAUSE II on the front panel). To resume recording, press the same button again.

To stop recording

Press STOP \blacksquare .

To watch another TV programme while recording

- 1 Press VCR/TV so that the VCR indicator goes off from the display.
- 2 Select a different channel you want to watch on the TV.

You can watch the programme of the selected channel on the TV, without affecting recording on the VCR.

 If you use a Cable box or DBS tuner, you cannot watch another programme while recording.

Erase protection

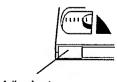
Cassettes have the record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure: Break off the record tab with a screwdriver.



To record again:

Cover the opening with adhesive tape.



One Touch Recording (OTR)

The OTR function lets you quickly specify how long you want a recording to continue. You do not have to programme the timer.

Make sure....

- · The record tab on the cassette is not removed.
- · Your VCR, TV, and antenna are connected correctly.
- The remote control operation mode is set correctly for operating your target component.
 - Press VCR to operate the VCR.
 - Press TV to operate the TV.



- 1 Turn on the TV.
- 2 Select the video channel (or video input).



Insert a cassette with the record tab in place.

The VCR turns on.

· If a cassette is already in the VCR, turn on the VCR.

To rewind the tape, press ◄ (or turn the shuttle ring on the front panel counterclockwise).



Press CH ▲ / ▼ or Number buttons to select the channel to record.

· If you use a Cable box or DBS tuner, select the Cable box or DBS tuner output channel.



Start OTR

Press REC/OTR twice.

Recording starts immediately, and the O (Record) indicator lights up on the display.

CH12 This indicates that the-VCR will automatically shut off after 30 minutes of recording.



Select Recording Length

Press REC/OTR repeatedly until the desired recording length appears. Each time you press the button, recording length increases in 30minute intervals.

→0:30→1:00→1:30·····8:30→9:00-REC (Normal recording)

To check time remaining during an OTR

Press EXIT/STATUS.

To change the recording length during an OTR

Press REC/OTR until the desired length appears.

To cancel an OTR

Press STOP ■ to stop recording before the preset recording length is reached. If you want to cancel the OTR mode but continue recording, press REC/ OTR several times until "OTR" changes to "REC" on the TV screen.

Notes on the indications on the display, while an OTR operation

- · During recording, the displayed time counts down. When "0:00" is reached, recording stops and the VCR turns off automatically.
- If an OTR is engaged during pause, the displayed time counts down normally, but recording does not begin until you cancel the pause.

Index Search

You can locate an index marked at the beginning of each recording on a tape recorded on this VCR (or an indexed tape).

Press INDEX ►►I or INDEX I◄< repeatedly before starting play. Rapid forward or reverse search begins. When it finds the designated index, playback starts automatically.

- · Locate an index number by pressing the button repeatedly, indicating how many index marks ahead of or behind that recording you want is from the tape's current position.
- Up to ±9th index mark from the current position on the tape can be located.

Automatic Operations

Auto playback

When a tape is inserted, the VCR turns on. If the record tab is removed, playback begins.

Repeat playback

When you press and hold PLAY ► for more than 5 seconds, you can play back the same tape repeatedly (50 times). When the tape runs to its end, the VCR automatically rewinds the tape, and starts playback.

Auto rewind

When a tape reaches its end during playback, fåst forwarding, or manual recording, the VCR rewinds the tape and stops.

Memory rewind power off

When you press POWER during rewinding, the VCR turns off after rewinding is completed.

Eject cassette

You can eject the tape simply by pressing EJECT ≜ even while the VCR is turned off.

When you press EJECT ♠, the VCR automatically turns on, ejects the tape, then turns off.

Using On-Screen Display

You can display the VCR operating status on the TV screen.

For the information about what you can see on the TV screen, see page 6.

Select VCR Set Up Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "VCR SET UP" then press OK/►.



The VCR Set Up menu appears.

Select On-Screen Mode

- 1 Press ▲ or ▼ to select "ON SCREEN MODE."
- 2 Press OK/►. Each time you press the button, the setting changes.

ON:

When you press a tape running button (Stop, Play, etc.), the VCR status appears for 5 seconds.

COUNTER:

When you press a tape running button, the VCR operating status appears for 5 seconds. After 5 seconds, the VCR status disappears except the time counter.

OFF:

The VCR operating status does not appear even if you press a tape running button.

Finish Setting

Press EXIT/STATUS.

To display the VCR status on the TV screen manually, press EXIT/ STATUS. The VCR status appears for about 5 seconds.

 If "ON SCREEN MODE" is set to "OFF," no VCR status appears though you press EXIT/STATUS.

Stabilizing Playback Quality

With this function, you can correct vertical vibration while playing back a tape recorded in SLP mode.

Select VCR Set Up Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "VCR SET UP" then press OK/►.



The VCR Set Up menu appears.

2 Set Video Stabilizer

- 1 Press ▲ or ▼ to select "VIDEO STABILIZER."
- 2 Press OK/►. Each time you press the button, the

ON:

Select this to activate Video Stabilizer.

OFF:

Select this to cancel Video Stabi-

9

Finish Setting

Press EXIT/STATUS.

setting changes.

Notes:

- This function has no effect on a tape recorded in SP mode.
- After watching a tape using this function, make sure to cancel this function.

Picture Control

To get a better picture when viewing tapes with noise such as rental tapes.

Select VCR Set Up Mode

1 Press VCR.

OK/►.

- 2 Press MENU.
- 3 Press ▲ or ▼ to select "VCR SET UP" then press



The VCR Set Up menu appears.

2 Select Picture Control Mode

- 1 Press ▲ or ▼ to select "PICTURE."
- 2 Press OK/▶.

Each time you press the button, the setting changes.

NORMAL:

Select this when you play back a tape with no picture adjustments.

ENHANCER:

Select this when you want to make a playback picture softer.

INCREDIBLE:

Select this when you want to make a playback picture sharper.

Finish Setting

Press EXIT/STATUS.

Recording an MTS Programme

This VCR can record an MTS (Multichannel Television Sound) programme. You need to specify the sound mode – either stereo or SAP– whichever you want to record the programme in.

However, if an MTS programme is broadcasted in stereo (without SAP sound), this VCR automatically records it in HiFi stereo mode. So, you do not need to specify the type of programme.



- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "VCR SET UP" then press OK/▶.



The VCR Set Up menu appears.

Select Programme Type

- 1 Press ▲ or ▼ to select "STEREO/ SAP."
- 2 Press OK/►. Each time you press the button, the setting changes.

STEREO:

Select this when you want to record an MTS broadcast in HiFi recording (in main language).

SAP (Second Audio Programme): Select this when you want to record a Second Audio Programme.

Finish Setting

Press EXIT/STATUS.

Start Recording

Press REC/OTR.

 For more detailed recording procedures, see "Recording" (+P.14).

Selecting Monitor Sound

While playing back a HiFi stereo tape, you can change sound you listen.

Make sure....

 The connections described in "VCR to AV TV Connection" (→P.10) are required for HiFi stereo reproduction.

Select VCR Set Up Mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "VCR SET UP" then press OK/►.



The VCR Set Up menu appears.

Select Monitor Sound

- 1 Press ▲ or ▼ to select "AUDIO OUT."
- 2 Press OK/►. Each time you press the button, the setting changes.

HIFI:

Normally select this.

You can play back a HiFi tape in HiFi stereo mode, and monaural tape in monaural mode.

MONO:

Select this when you want to play back the sound recorded on the normal audio track of the tape.

Finish Setting

Press EXIT/STATUS.

Special Effect Playbacks

Are you familiar with tape playback? If so, you are ready to enjoy the special effect playback features described below.

To skip playback for a certain period

Press SKIP SEARCH during playback to search forward for 30 seconds by the time counter reading.

Each time you press the button, the search time increases as follows:

30→60→90→120 sec.

The VCR automatically resumes normal playback after searching for the specified period.

To rapidly locate then freeze a particular scene

Possible during the playback and still picture mode.

- Turn the shuttle ring on the front panel clockwise (or counterclockwise) to fast forward (or reverse) a picture.
 As you turn the ring further, the
 - As you turn the ring further, the search speed increases.
- 2 Release the ring where you want to freeze a picture.

To view a still picture

Press STILL/SLOW I► briefly (or STILL/PAUSE II on the front panel) during playback.

Playback is freezed and a still picture appears.

To resume playback, press STILL/SLOW I► (or STILL/PAUSE II on the front panel) again or PLAY ►.

To view a slow motion picture Press STILL/SLOW I► for more than 2 seconds during playback.

To decrease the slow motion speed (and reverse the slow motion playback), press SLOW/BACK—.

To increase the slow motion speed (and forward the slow motion playback), and press SLOW/BACK +.

To resume playback, press PLAY ▶.

Notes:

- No sound comes out during special effect playbacks.
- If you keep viewing slow motion and still pictures for 5 minutes, the VCR automatically stops to protect the tape and video heads.
- During special effect playbacks, some noise bars will appear on the TV screen.

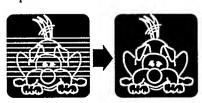
Tracking Adjustments

Auto tracking

Each time a tape is inserted, auto tracking starts working and continuously analyses the signal to adjust for optimum picture quality during playback. So, there is no need for you to minimize noises in most tapes during playback.

Manual tracking

- During normal playback:
 If auto tracking cannot eliminate noises well during playback, press CHANNEL ▲ or ▼ on the front panel.
- During a slow motion picture:
 Press CHANNEL ▲ or ▼ on the front panel to minimize noises in the slow motion picture.
- During a still picture:
 Press CHANNEL ▲ or ▼ on the front panel to reduce jitter in the still picture.



To cancel manual tracking, stop the tape, eject the tape, then re-insert it.

Timer Recording

To record while you're away, follow step 1 — 10 below. For each programme you set, the VCR will turn on, start recording, and turn off automatically. You can store up to 8 programmes.

Make sure....

- The clock is set to the correct time before setting timer recording.
- A cassette is inserted in the VCR and the record tab of the cassette mustnot be removed.
- The remote control operation mode is set correctly for operating your target component.
 - Press VCR to operate the VCR.
 - Press TV to operate the TV.

FOR EACH STEP BELOW, YOU NEED TO FINISH WITHIN 60 SECONDS; OTHERWISE, PROGRAMMING WILL HAVE TO BE RESTARTED FROM STEP 1.

Select Timer Mode

Press TIMER. The Timer Recording menu appears.

SELECT A▼ CHOOSE ► OX.

◆ QUICK PROGRAM NG
PROGRAM FEMENY

TO END FUSH EXIT

Z Select Programme mode

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "QUICK PROGRAM-

PROGRAMMING" then press OK/▶.

The Quick Programming menu appears.

If you have already made 8 programmes, "ALL PROGRAMS IN
USE" appears and goes back to the
Timer Recording menu. If this
happens, delete unwanted programmes
(see page 19).

Select Channel

Press CH \blacktriangle or \blacktriangledown to enter the TV channel.

To record from
external line input,
press CH A or V until "A/V IN" appears





on the TV screen.

Press START + or – (Number button 1 or 4).

• Each time you press the button, the set time changes by 1-minute intervals. If you hold the button, the set time changes

Select Stop Time

by 30-minute intervals.

Press STOP + or – (Number button 2 or 5).

· Each time you press

FROGRAM

CHEVIELA 12 CAPLET

STEAT + C3 C) FM

REC SPEED SLP

DATE + C OT SLT

SET DALLY-BC 9WEEPLY-9

TO END FUSH BLY

the button, the set time changes by 1-minute intervals. If you hold the button, the set time changes by 30-minute intervals.

(C) Select Tape Speed

Press SPEED.

 Each time you press the button, the tape speed alternates between "LP" and "SLP." ONE TIME FROSPAM
FRAGERM 1
CHAWLELS 12
CARLINERS 13
CARLINERS 13
STOF SA 13
CARLINERS 13
CARLINE

Select Start Date

Press DATE + or – (Number button 3 or 6).

• Each time you press the button, the set

CNE TWE FROGRAM
FROGRAM
CHANAELY GROUP
STARTY GROUP
STARTY GROUP
STOPY GROUP
REG SPEED LP
DATE 4 07379
FR DAY
SET DELIVESOR WEEKEY GROUP
TO END PUSHED IT

date changes by 1-day intervals. If you hold the button, the set time changes by 15-day intervals. You can only specify the date within one year.

 The year and day of the week is displayed automatically.

Select Recording Type

If you want to record the same programme daily, press DAILY (Number button 8).

The VCR will record a TV programme every day (Monday through Friday) at the same time and length. (Daily Recording)

If you want to record the same programme weekly, press WEEKLY (Number button 9).

The VCR will record a TV programme once a week at the same day, time, and length. (Weekly Recording)

If you want to cancel the currently set programme, press CLEAR.

Confirm Programme

Press EXIT/STATUS.

"PROGRAM WAS COMPLETED" appears on the TV screen.

After 3 seconds, the above message disappears, and the normal TV picture resumes. The (1) (Timer) indicator

 If "PROGRAM NOT COMPLETED" appears, try again from step 1.

If you want to store other programmes, repeat steps 1 to 9.

Finish Settings

lights up on the display.

Press POWER to turn off the VCR.

After a timer recording has taken place

Press POWER to turn on the VCR. You can operate your VCR normally.

To stop a started timer recording

Press POWER.

Recording stops and the VCR turns off. If it is a Daily or Weekly Recording, future recordings will be carried out as programmed.

Useful function for Timer Recording: Auto Tape Speed

With this function activated, the VCR can change the tape speed and record the programme in SLP mode if enough tape is not remaining for recording in SP mode.

- 1 Press VCR.
- 2 Press MENU.
- 3 Press ▲ or ▼ to select "VCR SET UP" then ►.
- 4 Press ▲ or ▼ to select "TIMER REC SPEED."
- 5 Press OK/►. Each time you press the button, the setting changes.

AUTO:

Select this to allow the VCR to change the tape speed from SP to SLP when there is not enough tape length remaining.

MANUAL:

Select this not to allow the VCR to change the tape speed.

6 Press EXIT/STATUS to exit from the menu operations.

To check, edit or erase the programmes

- 1 Turn on the VCR and TV.
- 2 Press VCR.
- 3 Press TIMER.
- 4 Press ▲ or ▼ to select "PRO-GRAM REVIEW" then press OK/▶.

 The list of the timer recording programmes appears.

5 Press OK/▶ repeatedly to view the more detailed programme information.

 When you press the button for the first time, the detailed programme information for Programme 1 appears.
 By pressing this button repeatedly, you can review the detailed information of all other programmes. 6 If you want to change the programme setting shown on the TV screen, press the following buttons:

START +/-: Changes the start time. STOP +/-: Changes the stop time. DATE +/-: Changes the date.

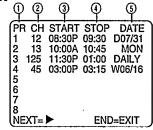
If you want to erase the programme setting shown on the TV screen, press CLEAR. The detailed information of the next programme appears.

7 Press EXIT/STATUS to exit from the menu operations.

Notes:

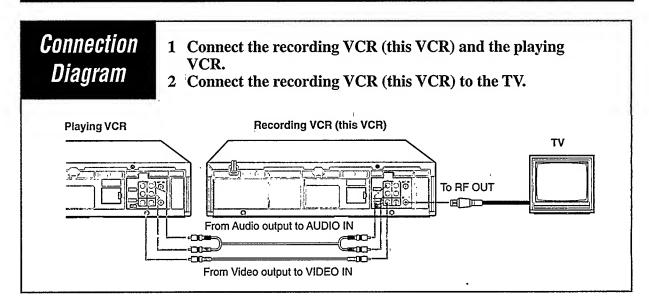
- This function does not work for OTR (One Touch Recording).
- With Day Saving Time activated (see page 12), the timer will not work correctly when the internal clock adjusts itself to the summer time or winter time,

How to see the programme list



- ① Programme numbers
- ② Preset channel numbers
- ③ Start time "A" stands for "AM," and "P" stands for "PM."
- 4 Stop time
- (§) Start date
 "D" stands for "DAILY," and "W"
 stands for "WEEKLY."
 - If the programme has worked once for the Daily recording, "DAILY" will be shown instead of the start date.
 - If the programme has worked once for the Weekly recording, the day of the week (in this example, "MON") will be shown instead of the start date.

Tape Duplication



Dubbing from any VHS VCR (or video camera) to another is simple. Explanations on this page uses this VCR as the recording VCR. Refer also the manual supplied with the other VCR (for playback).

Make sure....

- You can also use the AUDIO/VIDEO input jacks on the front panel to connect another VCR or video camera. If you use these jacks on the front panel, they have the priority over the ones on the rear panel.
- To record from the AUDIO/VIDEO
 IN jacks on the rear panel, make sure
 no connection is made to the
 AUDIO/VIDEO input jacks on the
 front panel.
- The remote control operation mode is set correctly for operating your target component.
 - Press VCR to operate the VCR.
 - Press TV to operate the TV.

At VCRs

Insert a source tape in the playing VCR and a blank tape in the recording VCR.

- If a tape without the record tab is inserted in the playing VCR, playback automatically starts. In this case, press the STOP button
- If the VCR indicator on the recording VCR (this VCR) does not light up, press VCR/TV once.

2 at TV

Turn the channel on the TV to your video channel.

Select Line Input

Press $CH \triangle or \nabla$, pointing the remote control at this VCR, to select the external line input.

"L" appears on the display and "A/V . IN" on the TV screen.

Select Tape Speed

Press SPEED, pointing the remote control at this VCR, until the desired tape speed (SP, SLP) appears on the display.

5 Play Back Tape

Press the PLAY button on the playing VCR.

Record (Copy) Tape

Press REC/OTR, pointing the remote control at this VCR.

Remember: press the buttons in steps 5 and 6 simultaneously to avoid missing any of the recording.

BEFORE REQUESTING SERVICE

Check the following points once again if you are having some difficulties with your VCR.

IMPORTANT

Periodic maintenance is required in order to maintain the VCR's continuous excellent performance. After a period of time the video heads will require replacement. If cleaning or replacement of the video heads is required, this service should be performed at an authorized video system service center.

Power —	Correction —
No power.	 Check that the AC power cord is correctly connected to an AC outlet.
	Check that the VCR is turned on.
Recording & Playback	Correction
TV programme cannot be recorded.	Check the connections between the VCR, the antenna, and the TV.
	 Make sure that the record tab on the back of the cassette is not removed. (+) P.14)
Timer recording cannot be performed.	• Set the timer on-time and timer off-time correctly. (+) P.18)
	 Make sure that the VCR is turned off after setting is made. (+P.19)
	 Timer recording may not be performed or stopped if a power interruption occurs before or during timer record- ing. If the power resumes within one minute, timer recording will also resume.
There is no playback picture, or the playback pi noisy or contains streaks.	 Select your video channel correctly. Press VCR/TV so that the VCR indicator lights up. Adjust the tracking slowly in either direction. (*) P.18)
During a still or slow motion picture, the picture may contain some vertical jitter when using a TV which has an automatic vertical hold contains	available.
If the top of your playback picture waves back and forth excessively.	 Because the VCR playback signal is not as stable as an off-the-air TV signal, the top of your TV screen may be bent or unstable during playback. To solve this problem, slowly turn the horizontal hold control on your TV to correct the wavy picture. If your TV does not have the horizontal hold control or adjusting the control does not help, contact your local TV service center.
- Remote Control -	Correction —
The remote control cannot work.	 Aim the remote control directly at the remote sensor on the VCR. Avoid all obstacles which may interfere with the signal path. Inspect or replace the batteries. (+) P.9)
	• Make sure batteries are inserted correctly. (+P.9)

Miscellaneous -

You cannot watch TV.

A cassette cannot be inserted.

The cassette does not eject.

Correction

Press VCR/TV so that the VCR indicator goes off.

· Insert the cassette with the window side up and the record tab facing you.

· Check that a cassette tape is not already inserted. Press EJECT ▲.

· Check that the AC power cord is correctly connected to an AC outlet.

• If the (Timer) indicator is lit on the display, press POWER to cancel timer recording, then press EJECT

The cassette ejects when you press REC/OTR, or when you press POWER to set timer recording.

 Check that the record tab on the back of the cassette is not removed. (+)-P.14)

SPECIFICATIONS

Design and specifications are subject to change without notice.

General

Mains voltage Mains frequency Power consumption

Ambient temperature

Relative humidity

Dimensions

Mass

Position for use

Video output channel

Number of pre-programmable memory blocks

Number of days in advance

AC 110 - 240V\\

50/60Hz

Approx. 24 watts

41°F(5°C) to 104°F(40°C)

10% to 80%

Approx. 400(W) x 94(H) x 265(D) mm

Approx. 3.3kg Horizontal

Channel 3 or 4 (selectable)

365 or every day, or every week

Tuner

Video signal

Broadcast channels CATV channels NTSC VHF 2 - 13, UHF 14 - 69 Mid-band: A-I

Super-band: J --- W Hyper-band: AA -- EEE

Low band: A5 --- A1 Ultra-band: 65 - 125

Video

Input (VIDEO IN) Output (VIDEO OUT)

Resolution Signal/noise ratio 0.5 to 2.0 Vp-p, 75 ohms 1.0±0.2 Vp-p, 75 ohms

Better than 240 lines Better than 43 dB

Audio

Input (AUDIO IN) Output (AUDIO OUT)

-8 dBs, 50k ohms (0dBs=0.775 Vrms) -6 dBs, 1k ohms (0dBs=0.775 Vrms)

Accessories supplied

Remote control unit RF coaxial cable

Batteries - R6(SUM-3)/AA (only for checking operations)

Conversion plug

Backup battery - CR2025

SAFETY INSTRUCTIONS

Read before operating equipment.

- 1. Read Instructions Read all of the safety and operating instructions before you operate the appliance.
 - Keep Instructions Keep the safety and operating instructions for future reference.
- for future reference.
 Heed Warnings Adhere to all warnings on the appliance and in the operating instructions.
 - 4. Follow Instructions Follow all operating and use instructions. 5. Cleaning Unplug this video product from the wall outlet before
- Cleaning Unplug this video product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Exception: A product that is meant for uninterrupted service and for some specific reason, such as the possibility of the loss of an authorization code for a cable TV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in item 5.

- 6. Attachments Do not use attachments not recommended by the video product manufacturer. They may be hazardous.
- the video product manufacturer. They may be hazardous.

 7. Water and Moisture Do not use this video product near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - 8. Accessories Do not place this video product on an unstable

cart, stand, tripod, bracket, or table. The video product may fall, causing serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should

follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. Move an appliance and cart combination with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

Ventilation - Slots and openings in the cabinet are provided for

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ventilation, to ensure reliable operation of the video product, and to protect it from overheating. Do not block or cover these openings. Do not block the openings by placing the video product on a bed, sofa, rug, or other similar surface. Do not place this video product near or over a radiator or heat register. Do not place this video product in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

- 10. Power Sources Operate this video product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operating instructions.
 - I. Grounding or Polarization This video product has a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, reverse the plug. If the plug still does not fit, ask your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
 - 12. **Power Cord Protection** Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appli-
- 13. Outdoor Antenna Grounding If you connect an outside antenna or cable system to the video product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to proper grounding of the mast and supporting

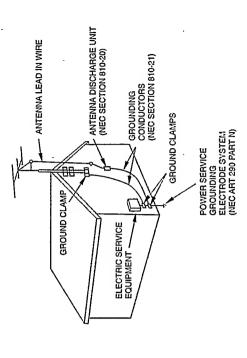
unit, connection to grounding electrodes, and requirements for the unit, size of grounding conductors, location of antenna discharge structure, grounding of the lead-in wire to an antenna discharge grounding electrode. (See Figure 1.)

- during a lightning storm, or when it is left unattended and unused for a long time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the video Lightning - For added protection of this video product receiver product due to lightning and power-line surges. 4.
- an outside antenna system, refrain from touching such power lines where it can fall into such power lines or circuits. When installing overhead power lines or other electric light or power circuits or Power Lines – Do not locate an outside antenna system near or circuits, as contact with them might be fatal 15
 - Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock. 9
- this video product through openings as they may tough dangerous Object and Liquid Entry - Never push objects of any kind into voltage points or short out parts, resulting in a fire or electric shock. Never spill liquid of any kind on the video product.
 - Servicing Do not attempt to service this video product yourself voltage or other hazards. Refer all servicing to qualified service as opening or removing covers may expose you to dangerous personnel. <u>8</u>
- Damage Requiring Service Unplug this video product from the wall outlet and refer servicing to qualified service personnel under the following conditions: 6
- When the power-supply cord or plug is damaged.
- if liquid spills or objects fall into the video product.
 - If the video product is exposed to rain or water.
- If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered work by a qualified technician to restore the video product to its controls may result in damage and will often require extensive by the operating instructions. An improper adjustment of other normal operation

- When the video product exhibits a distinct change in perfor-If the video product is dropped or the cabinet is damaged.
 - mance, this indicates a need for service.
- original part. Unauthorized substitutions may result in fire, electric Replacement Parts - when replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or which have the same characteristics as the shock or other hazards. 20.
- video product, ask the service technician to perform safety checks Safety Check - Upon completion of any service or repairs to this to determine that the video product is in proper operating condi-21.
- Heat Situate this video product away from heat sources such as adiators, heat registers, stoves, or other products (including amplifiers) that produce heat. 55

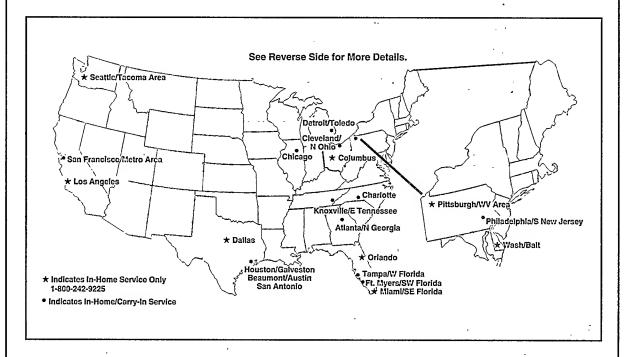
FIGURE 1

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE (NEC)



Philips Consumer Electronics Company

Factory Service Center Locations



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d'achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna-y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

To obtain efficient and expedient carry-in, mail-in, or in-home service for your product, please contact Philips at:

1-800-661-6162 (French speaking)

1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

Veuillez contacter philips á:

1-800-661-6162 (Francophone)

1-800-363-7278

En el Canadá

Cómo recibir servicio efficiente para su producto, en persona, por correo o a domicillo

Favor de comunicarse con Philips al:

1-800-661-6162 (francófono)

1-800-363-7278 (anglófono)

QUALITY SERVICE IS AS CLOSE AS YOUR TELEPHONE! SIMPLY LOOK OVER THE LIST BELOW FOR THE NUMBER OF A FACTORY SERVICE CENTER NEAR YOU. YOUR PRODUCT WILL RECEIVE EFFICIENT AND EXPEDIENT CARRY-IN, MAIL-IN, OR IN-HOME SERVICE, AND YOU WILL RECEIVE PEACE OF MIND, KNOWING YOUR PRODUCT IS BEING GIVEN THE EXPERT ATTENTION OF PHILIPS' FACTORY SERVICE. AND, IF THE PHONE NUMBER LISTED FOR YOUR AREA IS LONG DISTANCE, CALL 1-800-242-9225 FOR FACTORY SERVICE.

COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

CÓMO OBTENER UN SERVICIO OPORTUNO Y EFICIENTE POR CORREO, EN CASA O EN PERSONA PARA SU PRODUCTO A TRAVÉS DE UN CENTRO PHILIPS DE SERVICIO.

MAS DE 600 SITIOS POR TODO EL PAIS PARA LA RECEPCION DE PRODUCTOS NECESITADOS DE REPARACIONES: COMUNICARSE CON EL CENTRO DE SERVICIO DE
FABRICA MAS CERCANO PARA ESTOS LUGARES DENTRO DE UN RADIO DE 80 A 120 KM (50 A 75 MILLAS) DEL CENTRO DE SERVICIO LOCAL.

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Philips Factory Service of Illinois 1360 W. Hamilton Pkwy. Itasca, IL 60143 (630) 775-0990

TENNESSEE

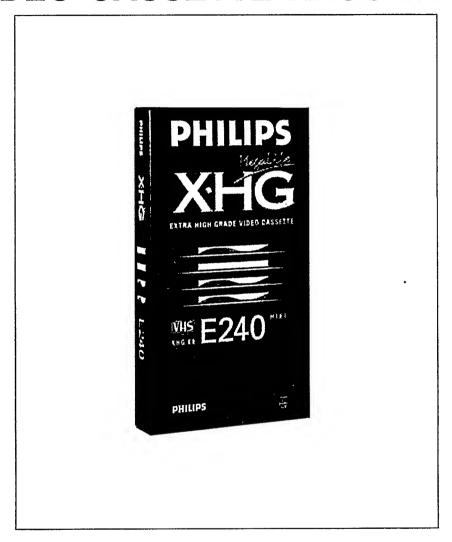
Philips Factory Service of East Tennessee 6700 D Papermill Rd. Knoxville, TN 37919 (423) 584-6614

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